078D

Site: Martha Rose
ID #: MOD980633969
Break: 3.3
Other:
01/24/90

BLACK & VEATCH
ENGINEERS-ARCHITECTS

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JAN 25 1990
REML SECTION

TEL. (913) 339-2000

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MAILING ADDRESS P.O. BOX NO. 8405
KANSAS CITY, MISSOURI 64114

CH2M HILL/EPA
REM IV
Martha C. Rose Chemical Company Site

B&V Project 64581.0PN
B&V File 3050
January 24, 1990

U.S. EPA Region VII
726 Minnesota Avenue
Kansas City, Kansas 66101

Attention: Mr. Steve Kinser
Remedial Project Manager

Re: PRP Draft Groundwater Sampling Plan, Round Four Document Review

Gentlemen:

Reference is made to your recent request for the REM IV team's technical review of the Draft Groundwater Sampling Plan, Round Four, dated January 12, 1990, submitted by the Rose Chemical Steering Committee and prepared by Burns & McDonnell Engineering Company.

The above-referenced document was received by the REM IV team for review on January 17, 1990. The REM IV team's technical review comments on the Draft Groundwater Sampling Plan, Round Four are presented in the enclosed memorandum dated January 24, 1990. Please call should you have any questions pertaining to the enclosed information.

Very truly yours,

BLACK & VEATCH

Janet S. Walstrom
Site Manager

rmc
Enclosure

cc: Mr. Phil Burke, RM, CH2M HILL, w/enclosure
Mr. Jeff Hullinger, RTL, CH2M HILL, w/enclosure
Mr. Ray Herzog, B&V, w/enclosure
Mr. Ed Meyer, B&V, w/enclosure
Ms. Teresa Shock, B&V, w/enclosure
Mr. Dick Kaufman/File, AFPM, B&V, w/enclosure

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MEMORANDUM

CH2M HILL/EPA
REM IV
Martha C. Rose Chemical Company

B&V Project 64581.0PN
B&V File 3050
January 24, 1990

To: J.S. Walstrom/File

From: R.H. Herzog
E.W. Meyer
T.L. Shock

Re: Review Comments on Draft Groundwater Sampling Plan, Round Four

This memorandum presents the REM IV team's review comments on the Draft Groundwater Sampling Plan, Round Four, dated January 12, 1990, submitted by the Rose Chemicals Steering Committee and prepared by Burns & McDonnell Engineering Company.

Several documents served as reference information concerning the RI at the Rose site and were used in preparing this memorandum. Such documents include the following:

- Final Work Plan for Remedial Investigation/Feasibility Study at Rose Chemicals Site in Holden, Missouri (Work Plan), Rose Chemicals Steering Committee, June 30, 1988, prepared by ERT, Inc.

- Quality Assurance Project Plan, Rose Chemicals Site, Holden, Missouri (QAPP), Rose Chemicals Steering Committee, January 1989, prepared by Burns & McDonnell Engineering Company.

- Sampling and Analysis Plan, Rose Chemicals Site, Holden, Missouri (SAP), Rose Chemicals Steering Committee, January 1989, prepared by Burns & McDonnell Engineering Company.

- Addendum No. 1 to the Sampling and Analysis Plan, Rose Chemicals Site, Holden, Missouri (Addendum No. 1), Rose Chemicals Steering Committee, August 1989, prepared by Burns & McDonnell Engineering Company.

MEMORANDUM

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REM IV
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1	Describe the procedure that will be used to pre-decontaminate the bailers.
1	A new piece of rope should be used for both purging and bailing.
1	Personnel handling the bailer, rope, and bottles should be required to wear new surgeon's gloves.
1	To prevent cross contamination, new saranex coated tyveks should be worn by personnel involved in purging and sampling each well.
3	The tent must be large enough to allow bailing to be performed without having the bailer touch the inside of the tent.
3	The inside of the tent should be steam cleaned between wells to prevent cross contamination of samples.
3	Describe how a portable table will be used by personnel performing the bailing.
3	The wells should be sampled within 24 hours of purging. If more than 24 hours has elapsed, the wells shall be purged again prior to sampling.
4	Explain why the samples to be filtered will not be filtered in the field by Burns & McDonnell Engineering Company personnel.
5	VOC sample should be collected prior to collecting water for temperature, pH and conductivity. Clarify if two samples will be collected for temperature, pH and conductivity measurements or if one sample will be collected and allowed to stand for 30 minutes between measurements. If only one sample is to be taken, the change in temperature may result in change to the pH of the water.
5	Describe when and how often equipment to measure pH, temperature, and conductivity will be calibrated.

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5	Clarify how many readings of pH, temperature, and conductivity will be collected for each set of measurements.
5	Item 5. Other than cooling the sample, explain what preservatives will be used. Samples to be filtered in the laboratory should not be preserved in the field except for cooling the sample.
5	Item 6. New rope should be attached to the bailer.
5	Item 9. The bailer should be allowed to sink to within the screened zone.
6	Item 13. If refilling a VOA vial is necessary, the bailer shall be emptied and refilled with new water from the well prior to refilling the vial.
6	Item 14. Clear tape should be placed over the sample label to prevent smearing of ink or wetting of the label.
6	Item 15. Clarify that only VOC samples need to be filled with no air in the bottle.
6	Item 16. Explain why VOC samples are to be shipped in an inverted position.
6	Item 17. Describe how samples will be transported to the laboratory.
6	Samples should be placed in iced cooler immediately following collection. The sample should be cooled to 4^{o} C.
7	When preparing replicate samples, the VOA vials should not be split during filling. Rather, each VOA vial should be filled completely and capped immediately to prevent the loss of volatiles. To provide sample duplication for VOA samples, a minimum of two VOA vials must be filled from each bailer of water. One VOA vial will be for the primary sample and the other for the replicate sample. If more than two vials can be filled from one bailer of water, then an even number of vials must be filled from that bailer to allow splitting the vials between the primary and replicate samples.

MEMORANDUM

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Martha C. Rose Chemical Company

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7	Since one replicate is to be used to prepare the daily matrix spike/matrix spike duplicate sample, a minimum of two replicate samples will be collected each day.
7	Provide a table showing which wells will have replicate samples prepared.
8	Deionized, rather than distilled water is called for in the SAP. This discrepancy should be corrected.